

FIG. 1

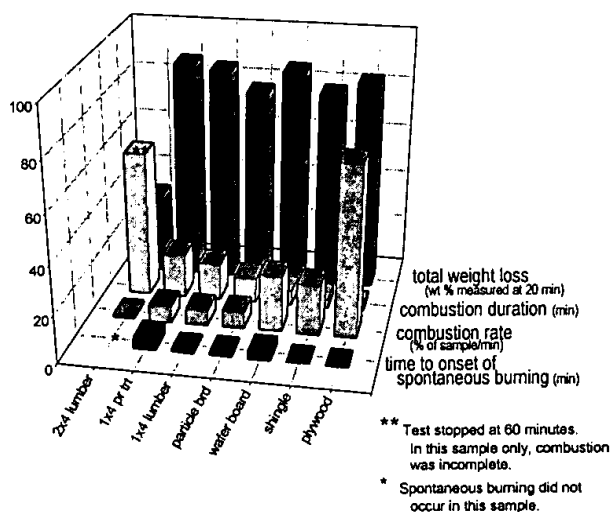


FIG. 2

A 3D bar chart illustrating the percentage weight loss for different treatments and weight groups under four conditions: 50% dip, 50% soak, 100% dip, and 100% soak. The Y-axis represents % Weight Loss, ranging from 0 to 50. The X-axis lists the treatments: Untreated Control, Boric Acid, and four weight groups (Wg#1, Wg#2, Wg#3, Wg#4). The Z-axis represents the four conditions. The bars are color-coded: 50% dip (lightest), 50% soak (light), 100% dip (dark), and 100% soak (darkest).

Treatment	50% dip	50% soak	100% dip	100% soak
Untreated Control	~48	~52	~55	~58
Boric Acid	~30	~32	~35	~38
Wg#1	~18	~20	~22	~25
Wg#2	~15	~18	~20	~22
Wg#3	~12	~15	~18	~20
Wg#4	~10	~12	~15	~18

The graph plots the percentage of weight loss during combustion tests against the percentage of water glass in the sample. The y-axis, labeled '% Weight Loss in Combustion Tests', ranges from 0 to 60. The x-axis, labeled 'Percent water glass in sample', ranges from 0 to 6. A solid curve represents the mean trend, flanked by two dotted lines indicating the range of variability. The data points show a general downward trend from approximately 40% weight loss at 0% water glass to a minimum of about 14% weight loss at 4% water glass, followed by a slight increase.

Percent water glass in sample	% Weight Loss in Combustion Tests (Mean)	% Weight Loss in Combustion Tests (Range)
0.0	39	36 - 46
0.1	46	44 - 48
0.2	36	34 - 46
0.3	46	44 - 48
0.4	51	49 - 53
1.0	22	18 - 26
1.4	31	27 - 35
1.6	27	23 - 31
2.0	20	16 - 24
4.2	15	11 - 19
4.7	16	12 - 20
5.1	15	11 - 19
5.4	16	12 - 20

55

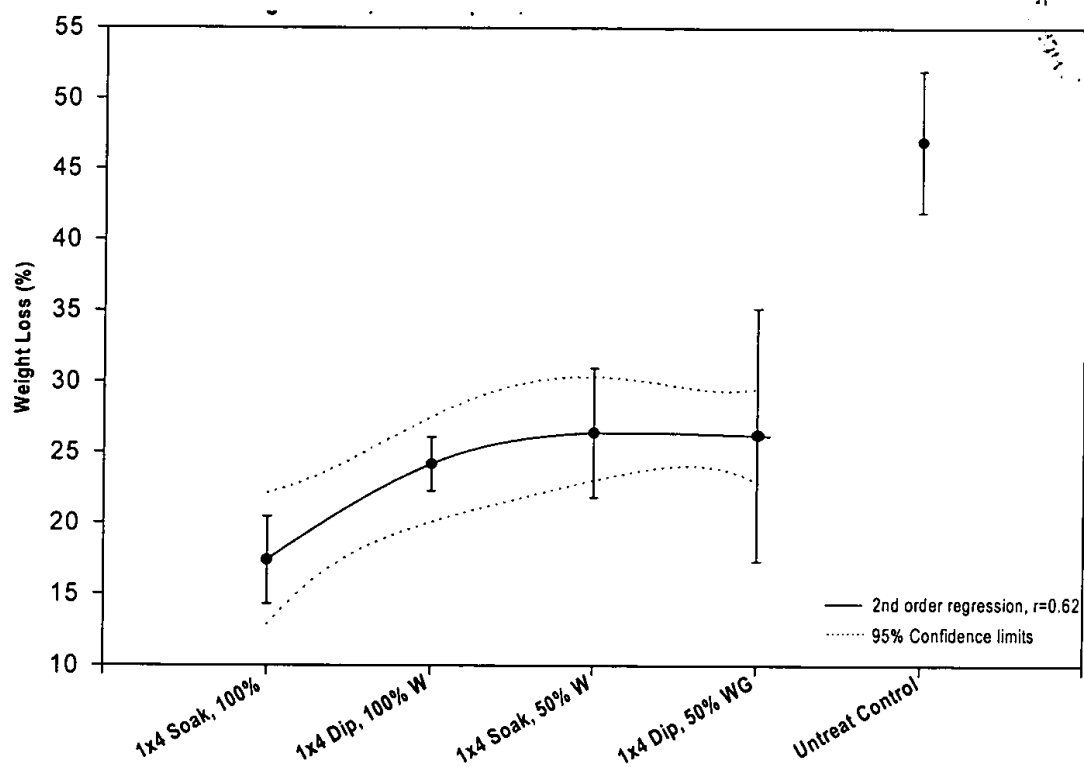


FIG. 5



FIG. 6

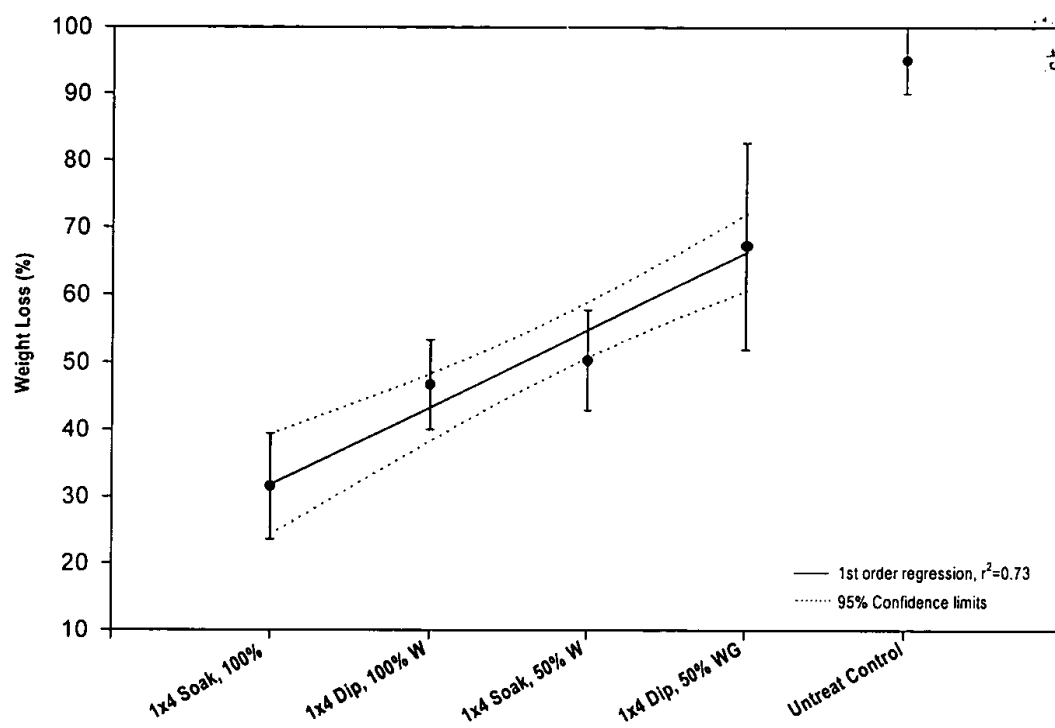


FIG. 7

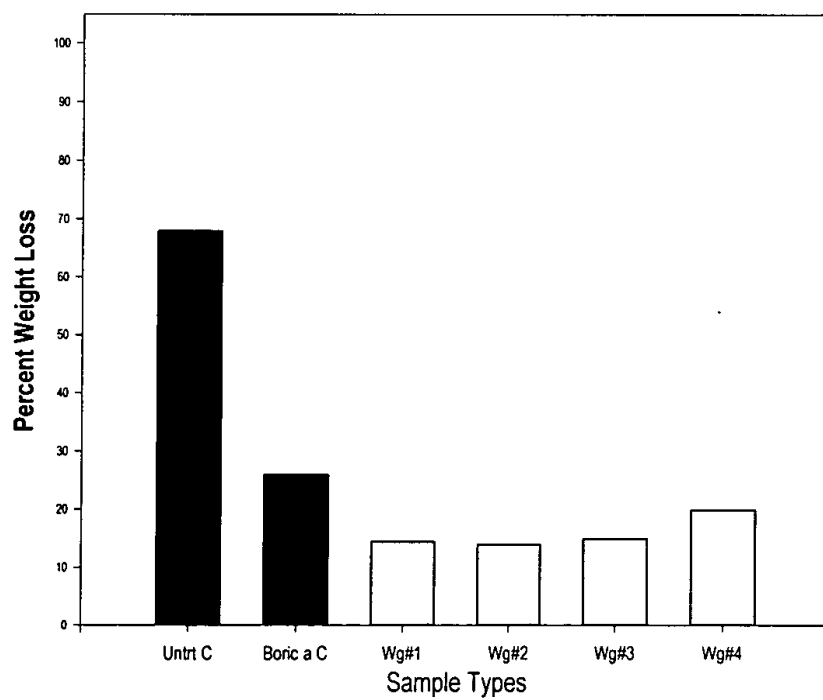


FIG. 8

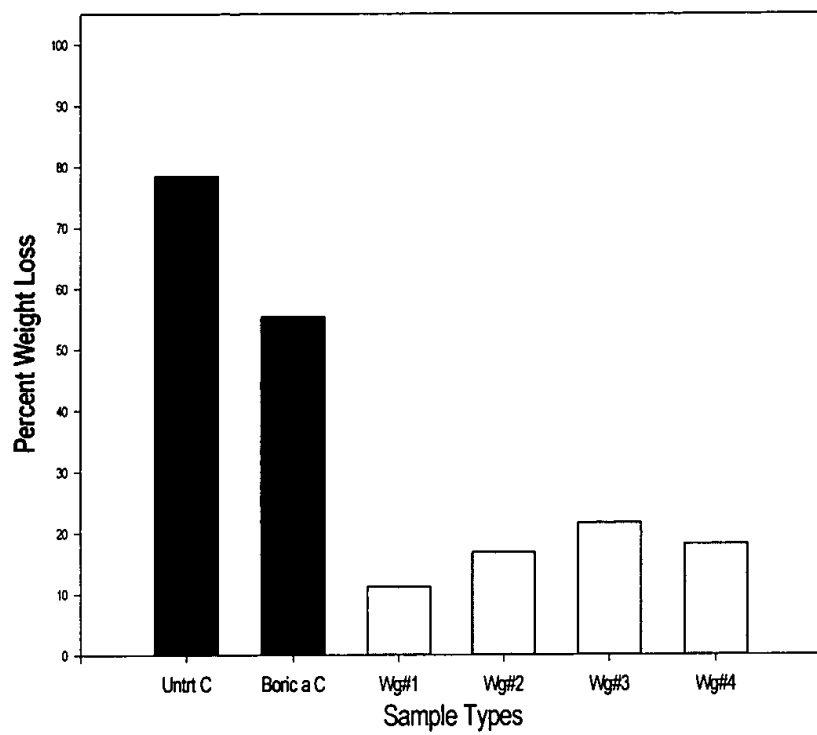


FIG. 9

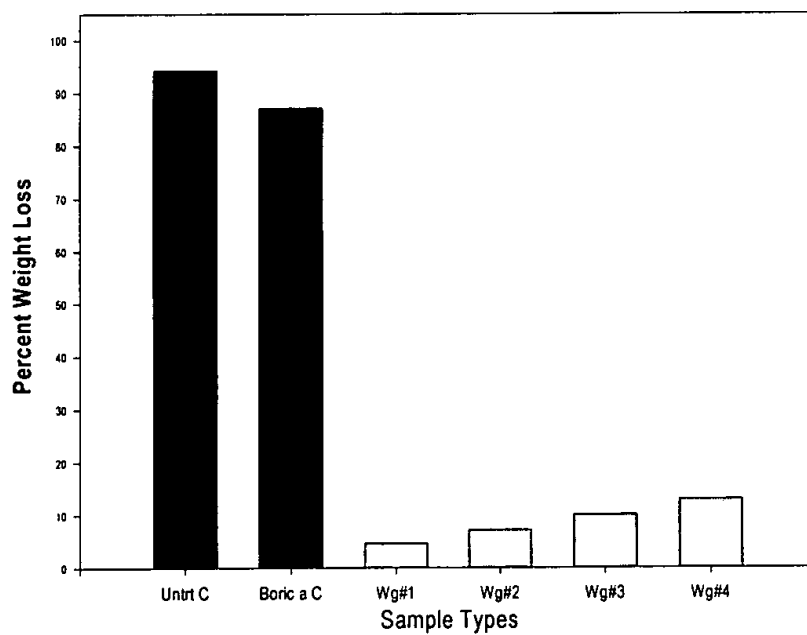


FIG. 10

20200320 20200320

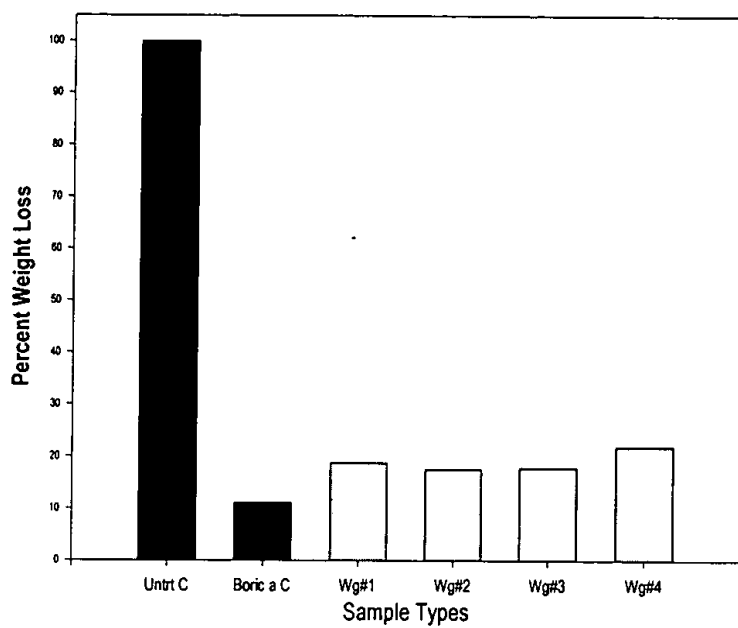


FIG. 11

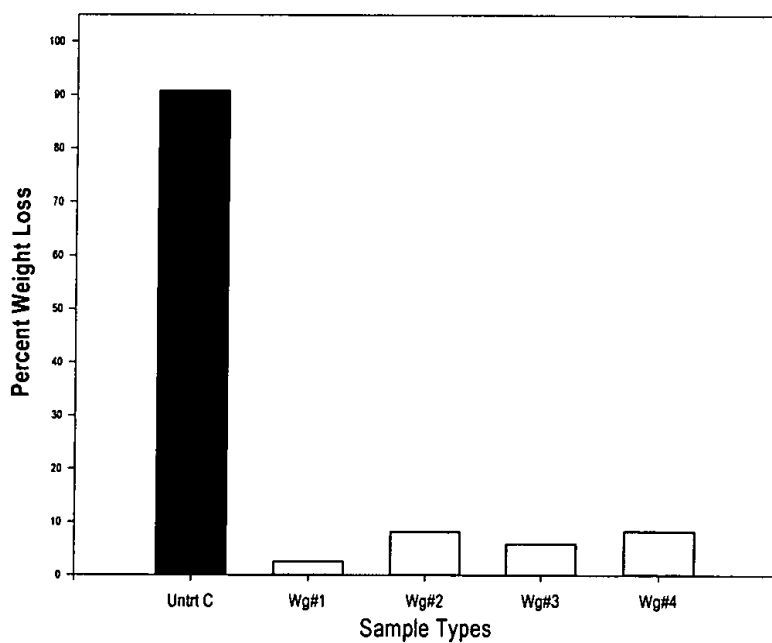


FIG. 12

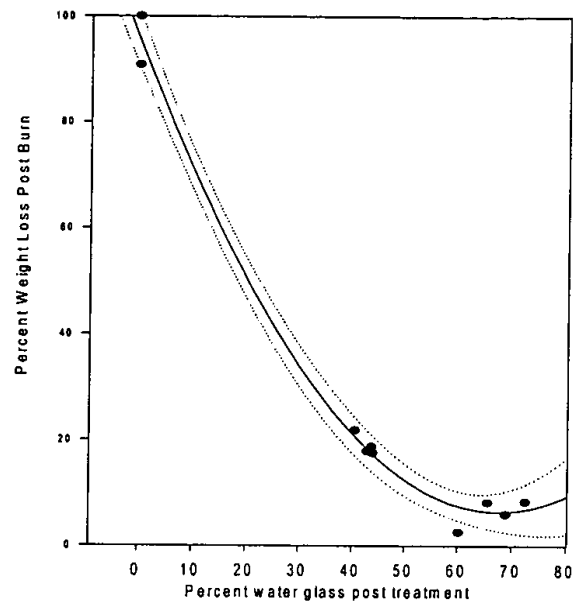


FIG. 13

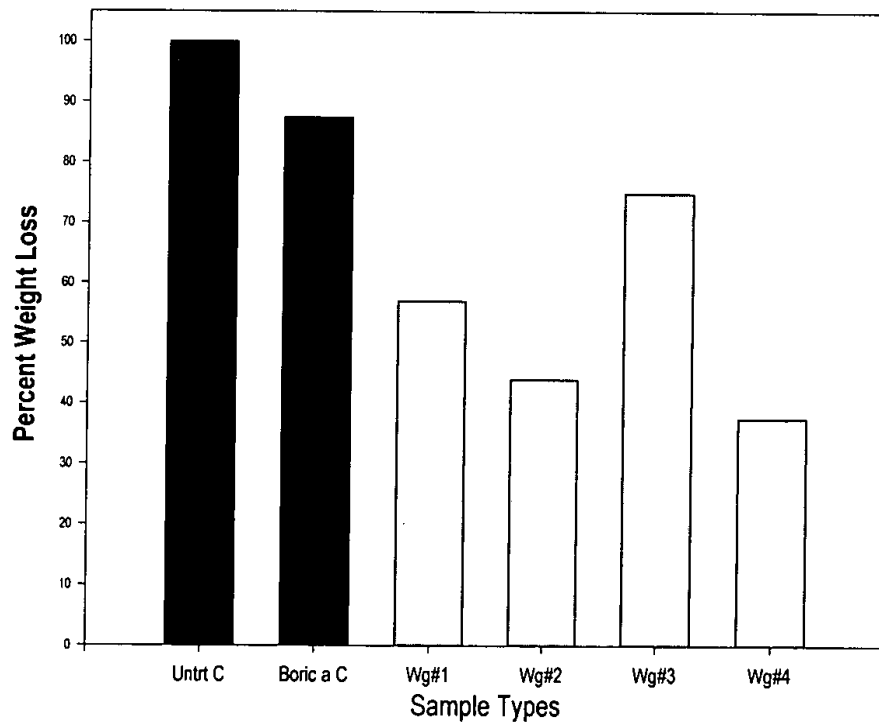


FIG. 14

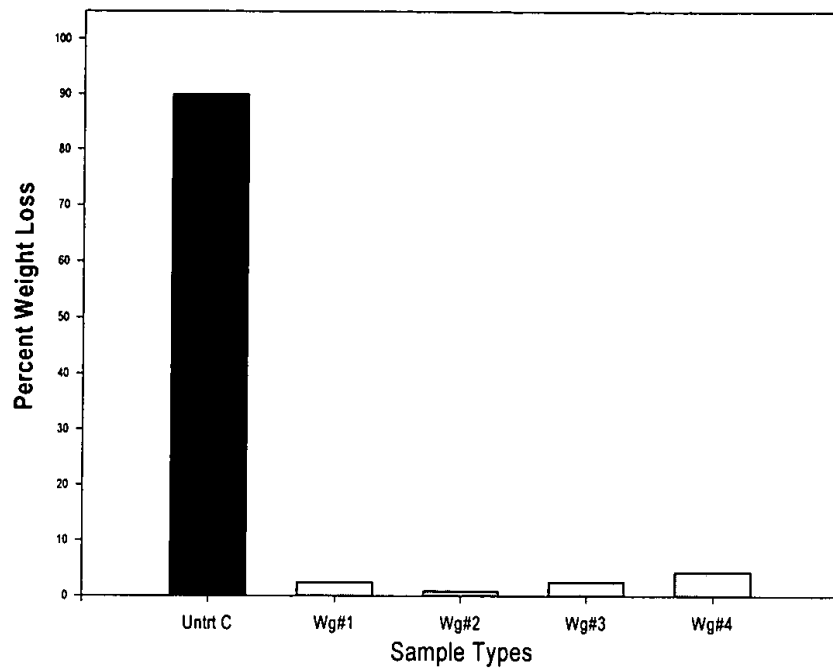


FIG. 15

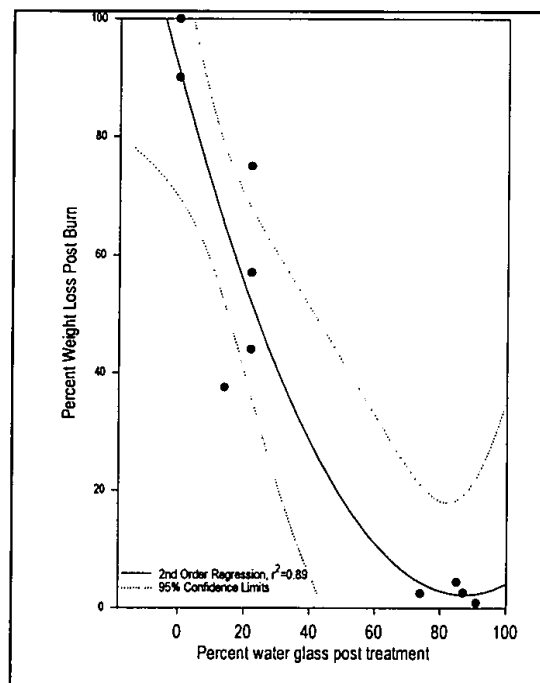
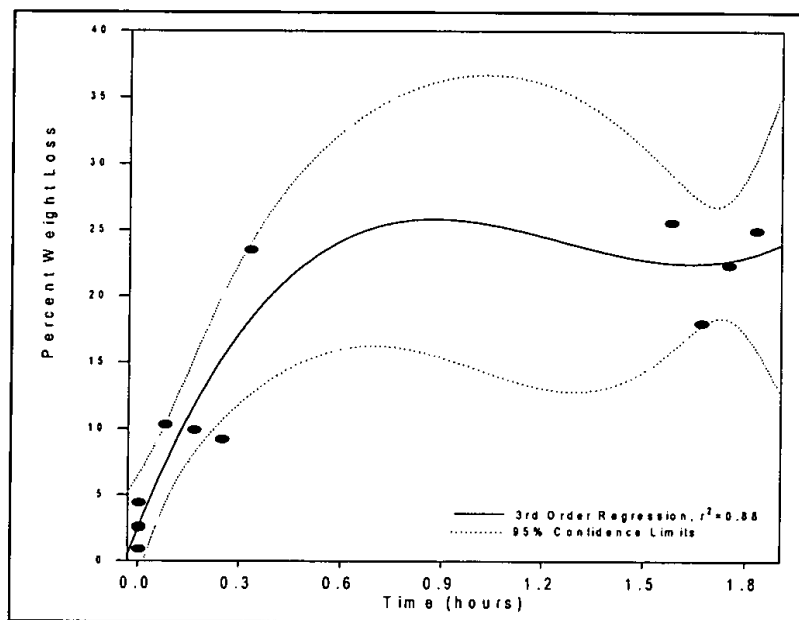
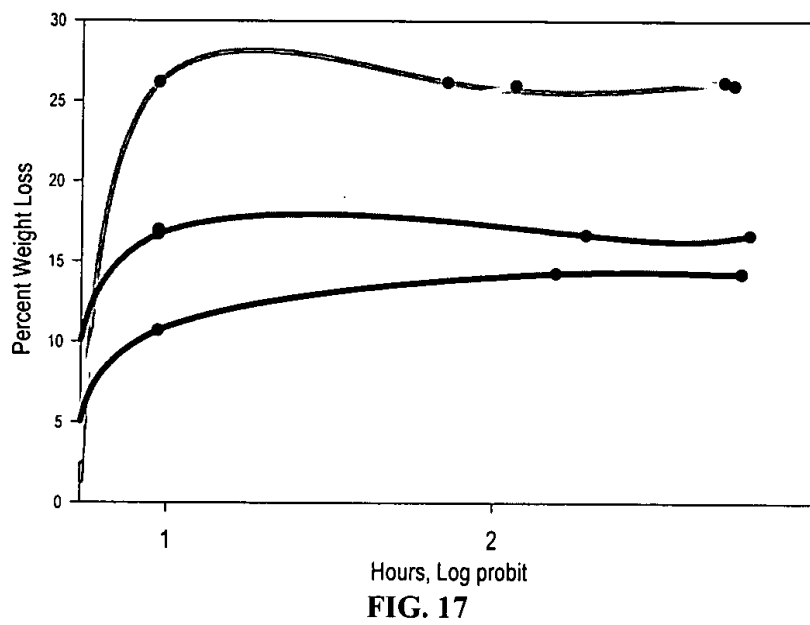


FIG. 16

202020-25072550



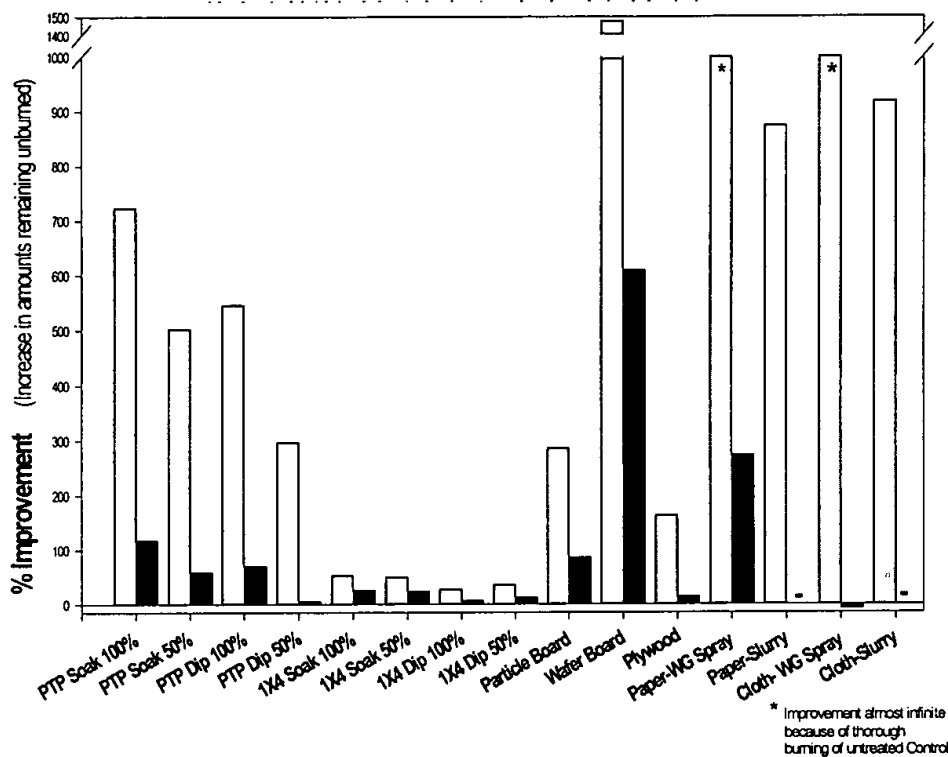


FIG. 19

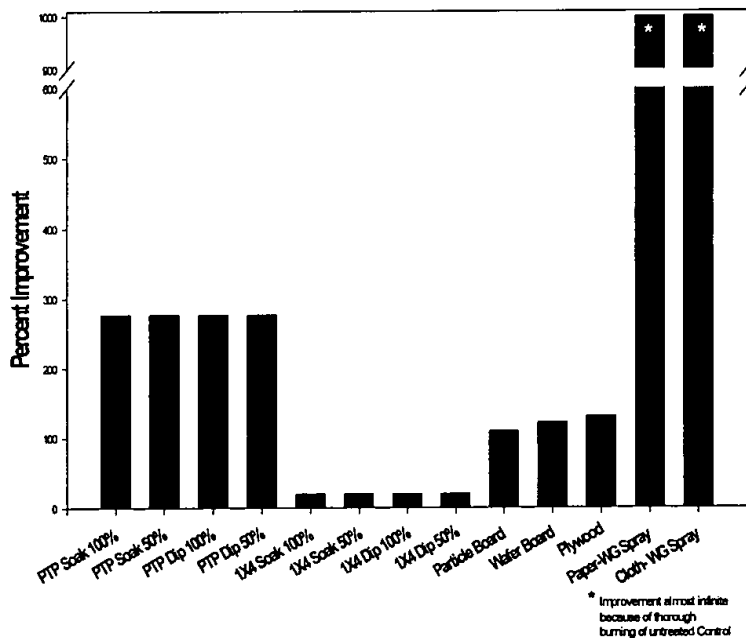


FIG. 20

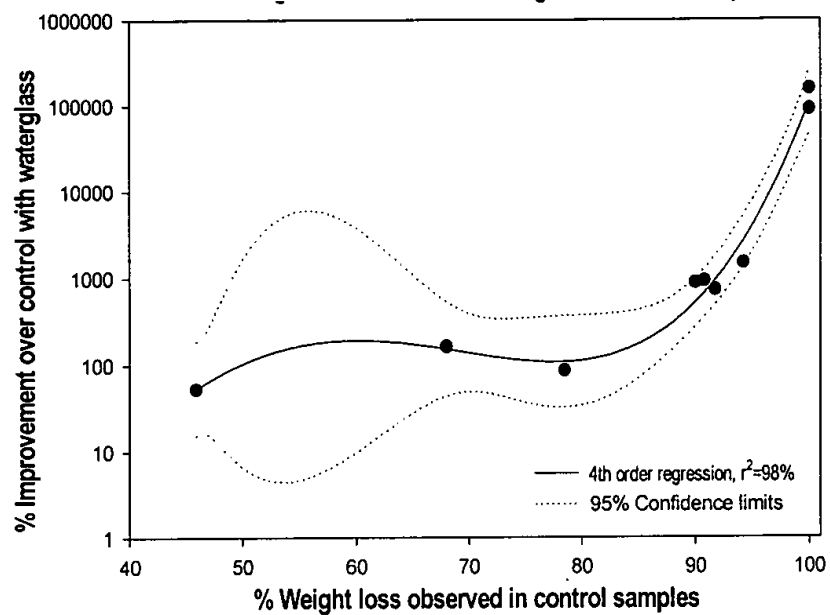


FIG. 21



FIG. 22.

2000-2001

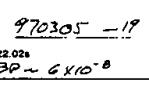
[illegible]

FIG. 24

. . . Hours to dissolve vs heating temperature
 — Percent of sample dissolving vs heating temperature

Temperature (°C)	Time required for dissolution (hrs)	Sample Dissolution (%)
25	0.003	0
50	0.005	0
75	0.01	0
100	0.02	0
125	0.04	0
150	0.1	0
175	0.2	0
200	0.5	0
225	1.0	0
250	2.0	0
275	4.0	0
300	6.0	0
325	10.0	0
350	15.0	0
375	25.0	0
400	40.0	0
425	60.0	0
450	90.0	0
475	130.0	0
500	200.0	0
525	300.0	0
550	450.0	0
575	700.0	0
600	1000.0	0

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202000-240250

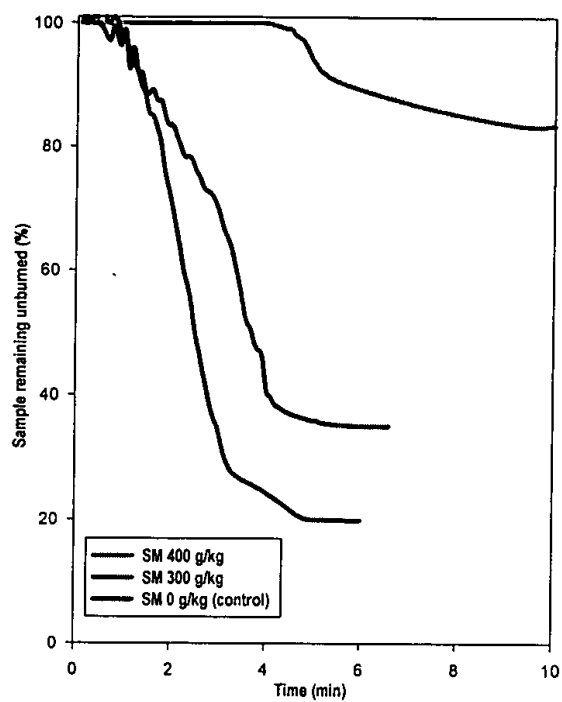


FIG. 26

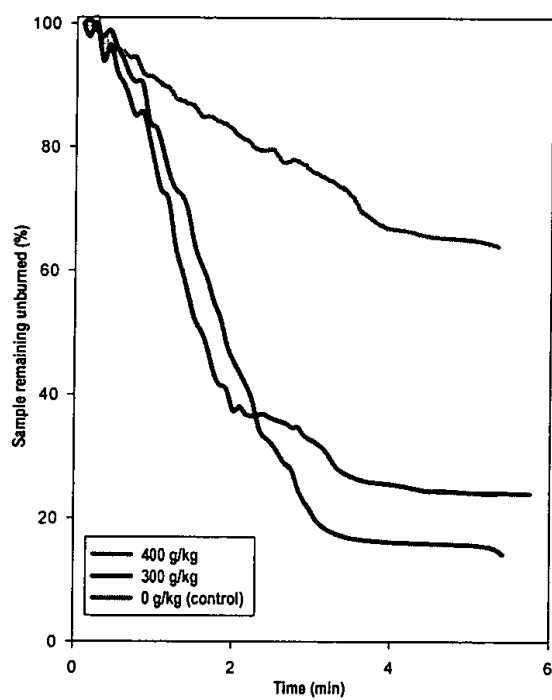


FIG. 27